

TC-895 A/B

RIGID 84 SHORE D HIGH HEAT RESISTANT POLYURETHANE CASTING SYSTEM

PRODUCT DESCRIPTION:

TC-895 A/B is a RoHS compliant, non-mercury based catalyst polyurethane system that produces a tough 84 shore D material. This system has an extremely high heat deflection temperature which in some cases can be post cured without having to use fixtures.

PRODUCT HIGHLIGHTS:

- High heat resistance
- Non-mercury
- RoHS compliant
- Working time of 6 - 7 minutes

PHYSICAL PROPERTIES:

Hardness, Shore D ASTM D2240-04e1	84 ± 2
Density, (g/cc) ASTM D792-00	1.22
Cubic Inches per Pound	24
Color/Appearance.....	Translucent pale yellow

Cure Schedule 1 (see page 2):

Tensile Strength, (psi) ASTM D638-03	10,300
Tensile Modulus, (psi) ASTM D638-03.....	2.93 x 10 ⁵
Elongation, (%) ASTM D638-03.....	9.1
Flexural Strength, (psi) ASTM D790-03.....	12,700
Flexural Modulus, (psi) ASTM D790-03	3.17 x 10 ⁵
Shrinkage, (in/in) linear 12" x 1/2" x 1/2"	0.008
Izod Impact, notched (ft-lb/in) ASTM D256-05	0.88
Heat Deflection Temperature:	
(@ 66 psi) ASTM D648-04	340°F (171°C)
(@ 264 psi) ASTM D648-04	218°F (103°C)
Coefficient of Thermal Expansion, (in/in/°F) ASTM E831-06	73.1 x 10 ⁻⁶

Cure Schedule 2 (see page 2):

Tensile Strength, (psi) ASTM D638-03	10,400
Tensile Modulus, (psi) ASTM D638-03.....	2.87 x 10 ⁵
Elongation, (%) ASTM D638-03.....	9.8
Flexural Strength, (psi) ASTM D790-03.....	12,200
Flexural Modulus, (psi) ASTM D790-03	3.03 x 10 ⁵
Shrinkage, (in/in) linear 12" x 1/2" x 1/2"	0.005
Izod Impact, notched (ft-lb/in) ASTM D256-05	0.95
Heat Deflection Temperature:	
(@ 66 psi) ASTM D648-04	290°F (143°C)
(@ 264 psi) ASTM D648-04	213°F (101°C)